

**Abstract**

A portable outdoor stove is provided which includes a burner primarily comprising an outer and inner pieces bolted tightly to form a small gas/air mixture chamber for accepting and maintaining high pressure gaseous fuel, a wind guard of cylinder shape capable of tightly coupled with a cooking vessel and possessing window opening of less than  $180^{\circ}$  toward its top for exhaust outlet, adjustable means for supporting the burner and positioning flame from burner onto bottom of cooking vessel and supporting means for the wind guard.

The burner possesses set of holes capable of directing high pressure combustion flame toward a upper center point concentrating heating power, extremely suitable for heating the bottom of a wok or any round bottom cooking vessel. With an adapter, another set of holes is capable of producing upward and outward spreading flame for flat bottom type cooking vessels. A protection guard can be put around the first wind guard preventing an operator accidentally touching the wind guard during cooking.